Firmato digitalmente da
Stefano Colombo
CN = Colombo Stefano
O = Ordine degli Ingegneri della Provincia di Milano
C = IT

System 1

LOCATION	TYPE	NAME	MODEL	COOLING						HEATING				AIR FLOW RATE
				TMP C °C / % (DBT/RH)	RQ TC KW	MAX TC KW	RQ SC KW	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	PIH KW	L/S
CORRIDOR (R.00L.46)	Fully Flat Casette	ACU HS-26	FXZA40A	24.0/50%	2.6	3.7	2.6	2.7	0.029	20	2.9	5	0.029	191.67
	Fully Flat Casette	ACU HS-52	FXZA40A	24.0/50%	2.6	3.7	2.6	2.7	0.029	20	2.9	5	0.029	191.67
	Fully Flat Casette	ACU HS-53	FXZA40A	24.0/50%	2.6	3.7	2.6	2.7	0.029	20	2.9	5	0.029	191.67
RED ZONE OFFICE (R.00L.50)	Concealed Ceiling Unit with medium ESP	ACU HS-25	FXSA63A	24.0/50%	4.6	5.8	3.7	4.4	0.106	20	2.1	8	0.106	350
	Fully Flat Casette	ACU HS-03	FXZA50A	24.0/50%	3	4.6	3	3.3	0.048	20	2	6.3	0.048	233.33
STORAGE (R.00L.64)	Wall mounted unit	ACU HS-37	FXAA15A	24.0/50%	0.8	1.4	0.8	1	0.017	20	0.6	1.9	0.025	118.33
DECOMISSIONING ROOM (R.00L.52)	Fully Flat Casette	ACU HS-38	FXZA32A	24.0/50%	2.3	3	2.1	2.1	0.019	20	1.2	4	0.019	166.67
C.I.C.O (R.00L.62)	Concealed Ceiling Unit with medium ESP	ACU HS-27	FXSA15A	24.0/50%	1	1.4	0.8	1.1	0.046	20	0.7	1.9	0.046	145
LOGISTIC STORAGE (R.00L.70)	Wall mounted unit	ACU HS-40	FXAA50A	24.0/50%	3.4	4.5	3	3.3	0.033	20	1.7	6.3	0.039	236.67
DAHU LOBBY 3 (R.00L.12)	Wall mounted unit	ACU HS-39	FXAA32A	24.0/50%	1.7	2.9	1.7	2.1	0.03	20	1.3	4	0.035	156.67
DAHU LOBBY 1 (R.00L.07)	Wall mounted unit	ACU HS-02	FXAA32A	24.0/50%	1.7	2.9	1.7	2.1	0.03	20	1.3	4	0.035	156.67
STAIRCORE 2 (R.00L.09)	Wall mounted unit	ACU HS-01	FXAA20A	24.0/50%	1.1	1.8	1.1	1.3	0.019	20	0.6	2.5	0.029	131.67
SPRINKLER ROOM (ZONE VALVES) (R.00L.10)	Wall mounted unit	ACU HS-04	FXAA40A	24.0/50%	2.4	3.6	2.2	2.7	0.025	20	2.7	5	0.03	203.33
WATER TREATMENT ROOM (R.00L.11)	Wall mounted unit	ACU HS-54	FXAA50A	24.0/50%	2.7	4.5	2.7	3.3	0.033	20	3.2	6.3	0.039	236.67
WATER TREATMENT ROOM (R.00L.11)	Wall mounted unit	ACU HS-51	FXAA50A	24.0/50%	2.7	4.5	2.7	3.3	0.033	20	3.2	6.3	0.039	236.67

System 2

LOCATION	TYPE	NAME	MODEL	COOLING						HEATING				AIR FLOW RATE
				TMP C °C / % (DBT/RH)	RQ TC KW	MAX TC KW	RQ SC KW	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	PIH KW	L/S
QUIET ROOM (R.00L.56)	Concealed ceiling unit with medium ESP	ACU HS-50	FXSA15A	24.0/50%	0.4	1.4	0.3	1.1	0.046	20	0.3	1.9	0.046	145
CORRIDOR (R.00L.55)	Wall mounted unit	ACU HS-15	FXAA63A	24.0/50%	3.4	5.8	3.3	4.4	0.05	20	2	8	0.06	303.33
	Fully Flat Casette	ACU HS-06	FXZA50A	24.0/50%	3.5	4.6	3.1	3.3	0.048	20	2	6.3	0.048	233.33
	Fully Flat Casette	ACU HS-14	FXZA50A	24.0/50%	3.5	4.6	3.1	3.3	0.048	20	2	6.3	0.048	233.33
STAIRCORE 1 (R.00L.54)	Wall mounted unit	ACU HS-05	FXAA20A	24.0/50%	1.1	1.8	1.1	1.3	0.019	20	0.2	2.5	0.029	131.67
BREAKROOM	Concealed ceiling unit with medium ESP	ACU HS-23	FXSA40A	24.0/50%	3.2	3.7	2	2.8	0.094	20	1.6	5	0.094	250
CONFERENCE ROOM (R.00L.73)	Concealed ceiling unit with medium ESP	ACU HS-51	FXSA32A	24.0/50%	2.7	3	1.5	2.2	0.049	20	1	4	0.049	158.33
PRIVATE OFFICE (R.00L.77)	Concealed ceiling unit with...	ACU HS-09	FXSA15A	24.0/50%	0.6	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
PRIVATE OFFICE (R.00L.78)	Concealed ceiling unit with medium ESP	ACU HS-10	FXSA15A	24.0/50%	0.6	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
PRIVATE OFFICE (R.00L.79)	Concealed ceiling unit with medium ESP	ACU HS-11	FXSA15A	24.0/50%	0.5	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
CONFERENCE ROOM (R.00L.72)	Concealed ceiling unit with medium ESP	ACU HS-08	FXSA25A	24.0/50%	2.2	2.4	1.2	1.7	0.046	20	0.8	3.2	0.046	150
	Concealed ceiling unit with medium ESP	ACU HS-07	FXSA25A	24.0/50%	2.2	2.4	1.2	1.7	0.046	20	0.8	3.2	0.046	150

System 3

LOCATION	TYPE	NAME	MODEL	COOLING						HEATING				AIR FLOW RATE
				TMP C °C / % (DBT/RH)	RQ TC KW	MAX TC KW	RQ SC KW	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	PIH KW	L/S
SECURITY VESTIBULE (R.00L.122)	Concealed ceiling unit with medium ESP	ACU HS-21	FXSA80A	24.0/50%	4.9	7.5	4.4	5.5	0.143	20	1.7	10	0.143	383.33
SECURITY CONTROL ROOM (R.00L.104)	Concealed ceiling unit with medium ESP	ACU HS-34	FXSA32A	24.0/50%	2.5	3	1.8	2.2	0.049	20	1.3	4	0.049	158.33
CONFERENCE ROOM (R.00L.215)	Concealed ceiling unit with medium ESP	ACU HS-35	FXSA25A	24.0/50%	2.1	2.4	1.2	1.7	0.046	20	1	3.2	0.046	150
EMC (R.00L.124)	Concealed ceiling unit with medium ESP	ACU HS-20	FXSA15A	24.0/50%	0.4	1.4	0.4	1.1	0.046	20	0.5	1.9	0.046	145
PRIVATE OFFICE (R.00L.87)	Concealed ceiling unit with medium ESP	ACU HS-12	FXSA15A	24.0/50%	0.5	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
PRIVATE OFFICE (R.00L.88)	Concealed ceiling unit with medium ESP	ACU HS-13	FXSA15A	24.0/50%	0.5	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
PRIVATE OFFICE (R.00L.89)	Concealed ceiling unit with medium ESP	ACU HS-19	FXSA15A	24.0/50%	0.5	1.4	0.5	1.1	0.046	20	0.5	1.9	0.046	145
OPEN OFFICE (R.00L.102)	Concealed ceiling unit with medium ESP	ACU HS-16	FXSA50A	24.0/50%	3.4	4.7	2.9	3.5	0.096	20	2	6.3	0.096	253.33
	Concealed ceiling unit with medium ESP	ACU HS-17	FXSA50A	24.0/50%	3.4	4.7	2.9	3.5	0.096	20	2	6.3	0.096	253.33
	Concealed ceiling unit with medium ESP	ACU HS-18	FXSA50A	24.0/50%	3.4	4.7	2.9	3.5	0.096	20	2	6.3	0.096	253.33

System 4

LOCATION	TYPE	NAME	MODEL	COOLING						HEATING				AIR FLOW RATE
				TMP C °C / % (DBT/RH)	RQ TC KW	MAX TC KW	RQ SC KW	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	PIH KW	L/S
CORRIDOR (R.00L.55)	Fully Flat Casette	ACU HS-22	FXZA50A	24.0/50%	3.5	4.6	3.2	3.3	0.048	20	2.9	6.3	0.048	233.33
STORAGE (R.00L.81)	Wall Mounted Unit	ACU HS-29	FXAA15A	24.0/50%	0.4	1.4	0.4	1	0.017	20	0.4	1.9	0.025	118.33
ELECTRICAL CLOSET (R.00L.74)	Wall Mounted Unit	ACU HS-28	FXAA15A	24.0/50%	0.5	1.4	0.4	1	0.017	20	0.2	1.9	0.025	118.33
	Wall Mounted Unit	ACU HS-30	FXAA15A	24.0/50%	0.5	1.4	0.4	1	0.017	20	0.2	1.9	0.025	118.33
CORRIDOR (R.00L.55)	Fully Flat Casette	ACU HS-55	FXZA50A	24.0/50%	3.5	4.6	3.2	3.3	0.048	20	2	6.3	0.048	233.33

System 5

LOCATION	TYPE	NAME	MODEL	COOLING						HEATING				AIR FLOW RATE
				TMP C °C / % (DBT/RH)	RQ TC KW	MAX TC KW	RQ C KW	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	PIH KW	L/S
CORRIDOR (R.00L.55)	Wall Mounted Unit	ACU HS-49	FXAA50A	24.0/50%	3.4	4.5	3.2	3.3	0.033	20	1.1	6.3	0.039	236.67
STORAGE (R.00L.82)	Wall Mounted Unit	ACU HS-42	FXAA25A	24.0/50%	1.7	2.3	1.6	1.7	0.028	20	1.3	3.2	0.034	138.33
BATTERY STORAGE (R.00L.86)	Wall Mounted Unit	ACU HS-43	FXAA32A	24.0/50%	1.9	2.9	1.9	2.1	0.03	20	1.2	4	0.035	156.67
BATTERY STORAGE (R.00L.92)	Wall Mounted Unit	ACU HS-44	FXAA25A	24.0/50%	1.6	2.3	1.6	1.7	0.028	20	1.1	3.2	0.034	138.33
CABLE LAYDOWN (R.00L.107)	Wall Mounted Unit	ACU HS-45	FXAA50A	24.0/50%	3.3	4.5	3.2	3.3	0.033	20	0.9	6.3	0.039	236.67
LC PREP FILL AREA (R.00L.106)	Wall Mounted Unit	ACU HS-46	FXAA63A	24.0/50%	4.4	5.8	4.2	4.4	0.05	20	0.5	8	0.06	303.33
	Wall Mounted Unit	ACU HS-56	FXAA63A	24.0/50%	4.4	5.8	4.2	4.4	0.05	20	3.3	8	0.06	303.33
LOADING DOCK (R.00L.137)	Wall Mounted Unit	ACU HS-47	FXAA63A	24.0/50%	3.9	5.8	3.8	4.4	0.05	20	4.3	8	0.06	303.33
	Wall Mounted Unit	ACU HS-48	FXAA63A	24.0/50%	3.9	5.8	3.8	4.4	0.05	20	4.3	8	0.06	303.33

NOTES:

1. VRF SYSTEMS SHALL BE AS MANUFACTURED BY DAIKIN, OR OTHER EQUAL AND APPROVED.
2. VRF SYSTEMS SHALL BE CHARGED WITH A GWP=675 REFRIGERANT IN ACCORDANCE WITH MANUFACTURER& INSTRUCTIONS.
3. REFRIGERANT CHARGE QUANTITY BASED ON BASIS OF DESIGN INFORMATION. CONTRACTOR SHALL ENSURE REFRIGERANT CHARGE DOES NOT EXCEED EN378 LIMITS AND STATE QUANTITIES IN TECH SUB RETURN.
4. ALL VRF INDOOR UNITS SHALL BE SUPPLIED COMPLETE WITH 22MM DIAMETER GRAVITY CONDENSATE DRAIN CONNECTION.
5. RELEVANT VRF INDOOR FCU UNITS TO COME COMPLETE WITH PLENUM FOR SPIGOT ATTACHMENTS FOR GRILLES.
6. VRF SYSTEM TO BE SUPPLIED AS A COMPLETE PACKAGE WITH ALL COMPONENTS NECESSARY TO ENSURE THE CORRECT OPERATION OF THE UNITS. ALL INTERCONNECTING CONTROLS WIRING TO BE PROVIDED BY VRF INSTALLER. THE VRF SYSTEM SHALL COMMUNICATE WITH THE SPLIT AC UNITS, VIA THE INSTALLED ROOM CONTROLLERS.
7. BIG FOOT SYSTEM SUPPORTS FOR CONDENSERS TO BE DESIGNED AND SELECTED BY CONTRACTOR.

NOTE:

1. I SISTEMI VRF DEVONO ESSERE PRODOTTI DA DAIKIN O DA ALTRI SISTEMI UGUALI E APPROVATI.
2. I SISTEMI VRF DEVONO ESSERE CARICATI CON UN REFRIGERANTE GWP=675 IN CONFORMITà CON LE ISTRUZIONI DEL PRODUTTORE.
3. QUANTITà DI CARICA DI REFRIGERANTE IN BASE ALLE INFORMAZIONI DI PROGETTAZIONE. L'APPALTATORE DEVE GARANTIRE CHE LA CARICA DI REFRIGERANTE NON SUPERI I LIMITI EN378 E INDICARE LE QUANTITà NEL SOTTORITORNO TECNICO.
4. TUTTE LE UNITà INTERNE VRF DEVONO ESSERE FORNITE COMPLETE DI RACCORDO PER LO SCARICO DELLA CONDENSA A GRAVITà DI 22 MM DI DIAMETRO.
5. UNITà FCU INTERNE VRF RILEVANTI COMPLETE DI PLENUM PER ATTACCHI SPIGOT PER GRIGLIE.
6. IL SISTEMA VRF DEVE ESSERE FORNITO COME PACCHETTO COMPLETO DI TUTTI I COMPONENTI NECESSARI PER GARANTIRE IL CORRETTO FUNZIONAMENTO DELLE UNITà. TUTTI I CABLAGGI DEI COMANDI DI INTERCONNESSIONE DEVONO ESSERE FORNITI DALL'INSTALLATORE VRF. IL SISTEMA VRF COMUNICA CON LE UNITà AC SPLIT, TRAMITE I CONTROLLER AMBIENTE INSTALLATI.
7. SUPPORTI PER SISTEMA A PEDALE GRANDE PER CONDENSATORI DA PROGETTARE E SELEZIONARE DA PARTE DELL'APPALTATORE.

Admin Split System Schedule

INDOOR UNIT																			OUTDOOR UNIT								
LOCATION	TYPE	NAME	MODEL	SYSTEM REDUNDANCY	REFRIGERANT	COOLING								HEATING					LOCATION	NAME	MODEL	CR	COOLING			HEATING		
						TMP C °C / % (DBT/RH)	RQ TC KW	RV TC KW	MAX TC KW	RQ SC KW	TEVAP °C	TDIS C °C	MAX SC KW	PIC KW	TMP H °C	RQ HC kW	Max HC kW	TDIS H °C	AIR FLOW RATE L/S				%	TMP C °C	MAX SC KW	RQ CC KW	TMP H °C / % (DBT/RH)	HC KW	RQ HC KW
Admin Elec Room (R.00L.136)	Wall mounted unit	ACU-SPH-01	FAA100B	N+1	R32	25 / 50%	TBD	TBD	TBD	6.014	6	TBD	7,09	TBD	19.4	2.006	TBD	TBD	383.33	Catcher Room 2.1C Roof	CU-SPH-01	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Admin Elec Room (R.00L.136)	Wall mounted unit	ACU-SPH-02	FAA100B		R32	25 / 50%	TBD	TBD	TBD	6.014	6	TBD	7,09	TBD	19.4	2.006	TBD	TBD	383.33	Catcher Room 2.1C Roof	CU-SPH-02	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Admin Elec Room (R.00L.136)	Wall mounted unit	ACU-SPH-03	FAA100B		R32	25 / 50%	TBD	TBD	TBD	6.014	6	TBD	7,09	TBD	19.4	2.006	TBD	TBD	383.33	Catcher Room 2.1C Roof	CU-SPH-03	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Admin Elec Room (R.00L.136)	Wall mounted unit	ACU-SPH-04	FAA100B		R32	25 / 50%	TBD	TBD	TBD	6.014	6	TBD	7,09	TBD	19.4	2.006	TBD	TBD	383.33	Catcher Room 2.1C Roof	CU-SPH-04	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Admin Elec Room (R.00L.136)	Wall mounted unit	ACU-SPH-17	FAA100B		R32	25 / 50%	TBD	TBD	TBD	6.014	6	TBD	7,09	TBD	19.4	2.006	TBD	TBD	383.33	Catcher Room 2.1C Roof	CU-SPH-17	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Security MDF (R.00L.85)	Wall mounted unit	ACU-SPH-09	FAA100B	N+1	R32	25 / 50%	TBD	TBD	TBD	5.412	6	TBD	7,09	TBD	19.4	0.366	TBD	TBD	383.33	Admin Roof Level	CU-SPH-09	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Security MDF (R.00L.85)	Wall mounted unit	ACU-SPH-10	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.412	6	TBD	7,09	TBD	19.4	0.366	TBD	TBD	383.33	Admin Roof Level	CU-SPH-10	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Security MDF (R.00L.85)	Wall mounted unit	ACU-SPH-18	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.412	6	TBD	7,09	TBD	19.4	0.366	TBD	TBD	383.33	Admin Roof Level	CU-SPH-18	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Security MDF (R.00L.85)	Wall mounted unit	ACU-SPH-19	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.412	6	TBD	7,09	TBD	19.4	0.366	TBD	TBD	383.33	Admin Roof Level	CU-SPH-19	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
MDF (R.00L.91)	Wall mounted unit	ACU-SPH-05	FAA100B	N+1	R32	25 / 50%	TBD	TBD	TBD	5.433	6	TBD	7,09	TBD	19.4	0.367	TBD	TBD	383.33	Admin Roof Level	CU-SPH-05	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
MDF (R.00L.91)	Wall mounted unit	ACU-SPH-06	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.433	6	TBD	7,09	TBD	19.4	0.367	TBD	TBD	383.33	Admin Roof Level	CU-SPH-06	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
MDF (R.00L.91)	Wall mounted unit	ACU-SPH-13	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.433	6	TBD	7,09	TBD	19.4	0.367	TBD	TBD	383.33	Admin Roof Level	CU-SPH-13	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
MDF (R.00L.91)	Wall mounted unit	ACU-SPH-14	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.433	6	TBD	7,09	TBD	19.4	0.367	TBD	TBD	383.33	Admin Roof Level	CU-SPH-14	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Red Zone Security Closet (R.00L.51)	Wall mounted unit	ACU-SPH-07	FAA100B	N+1	R32	25 / 50%	TBD	TBD	TBD	5.454	6	TBD	7,09	TBD	19.4	0.283	TBD	TBD	383.33	Admin Roof Level	CU-SPH-07	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Red Zone Security Closet (R.00L.51)	Wall mounted unit	ACU-SPH-08	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.454	6	TBD	7,09	TBD	19.4	0.283	TBD	TBD	383.33	Admin Roof Level	CU-SPH-08	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Red Zone Security Closet (R.00L.51)	Wall mounted unit	ACU-SPH-15	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.454	6	TBD	7,09	TBD	19.4	0.283	TBD	TBD	383.33	Admin Roof Level	CU-SPH-15	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD
Red Zone Security Closet (R.00L.51)	Wall mounted unit	ACU-SPH-16	FAA100B		R32	25 / 50%	TBD	TBD	TBD	5.454	6	TBD	7,09	TBD	19.4	0.283	TBD	TBD	383.33	Admin Roof Level	CU-SPH-16	RZAG100NY1	TBD	TBD	7,09	TBD	TBD	TBD	TBD

MV Switchroom Building Split System Schedule / Tabella dei sistemi split per la sala degli interruttori di media tensione

INDOOR UNIT/UNITÀ INTERNA													OUTDOOR UNIT/UNITÀ ESTERNA		
LOCATION/LOCAZIONE	TYPE/TIPO	NAME/NOME	MODEL/ MODELLO	SYSTEM REDUNDANCY/ RIDONDANZA DEL SISTEMA	REFRIGERANT / REFRIGERANTE	COOLING/RAFFREDDAMENTO				HEATING/RISCALDAMENTO			LOCATION/LOCAZIONE	NAME/NOME	MODEL/ MODELLO
						TMP C °C / % (DBT/RH)	RQ SC KW	TEVAP °C	MAX SC KW	TMP H °C	RQ HC kW	AIR FLOW RATE L/S			
PV room (R.00L.154)	Wall mounted unit	ACU-MV1-01	FAA100B	N	R-32	25 / 50%	5.84	6	7,09	19.4	1.871	383.33	MV Switchroom External Wall	CU-MV1-01	RZAG100NY1
PV room (R.00L.154)	Wall mounted unit	ACU-MV1-02	FAA100B	N	R-32	25 / 50%	5.84	6	7,09	19.4	1.871	383.33	MV Switchroom External Wall	CU-MV1-02	RZAG100NY1
MV Office (R.00L.155)	Wall mounted unit	ACU-MV2-01	FAA71B	N	R-32	25 / 50%	4.344	6	5,05	19.4	0.289	281.67	MV Switchroom External Wall	CU-MV2-01	RZAG71NY1
MV Switchroom 1 (R.00L.156)	Wall mounted unit	ACU-MV3-01	FAA71B	N+1	R-32	25 / 50%	5	6	5,05	19.4	3.754	281.67	MV Switchroom External Wall	CU-MV3-01	RZAG71NY1
MV Switchroom 1 (R.00L.156)	Wall mounted unit	ACU-MV3-02	FAA71B		R-32	25 / 50%	5	6	5,05	19.4	3.754	281.67	MV Switchroom External Wall	CU-MV3-02	RZAG71NY1
MV Switchroom 1 (R.00L.156)	Wall mounted unit	ACU-MV3-03	FAA71B		R-32	25 / 50%	5	6	5,05	19.4	3.754	281.67	MV Switchroom External Wall	CU-MV3-03	RZAG71NY1
MV Switchroom 2 (R.00L.153)	Wall mounted unit	ACU-MV4-01	FAA71B	N+1	R-32	25 / 50%	5	6	5,05	19.4	4.774	281.67	MV Switchroom External Wall	CU-MV4-01	RZAG71NY1
MV Switchroom 2 (R.00L.153)	Wall mounted unit	ACU-MV4-02	FAA71B		R-32	25 / 50%	5	6	5,05	19.4	4.774	281.67	MV Switchroom External Wall	CU-MV4-02	RZAG71NY1
MV Switchroom 2 (R.00L.153)	Wall mounted unit	ACU-MV4-03	FAA71B		R-32	25 / 50%	5	6	5,05	19.4	4.774	281.67	MV Switchroom External Wall	CU-MV4-03	RZAG71NY1

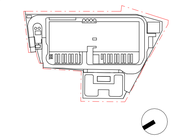
NOTES:

1. DIRECT EXPANSION (DX) SYSTEM SHALL BE CHARGED WITH REFRIGERANT WITH A GLOBAL WARMING POTENTIAL LOWER THAN 675.
2. CRITICAL DX UNITS SHALL BE SELECTED TO SATISFY THE SENSIBLE COOLING LOAD BASED ON AN INDOOR CONDITION OF 25°C AT 50% RH AND AN OUTDOOR TEMPERATURE OF 40°C.
3. THE N+1 CRITICAL DX UNITS SHALL BE CONFIGURED FOR AUTOMATIC ACTIVATION UPON DETECTION OF A FAILURE IN ANY ACTIVE UNIT.
4. REFRIGERANT CHARGE QUANTITY BASED ON BASIS OF DESIGN INFORMATION. CONTRACTOR SHALL ENSURE REFRIGERANT CHARGE DOES NOT EXCEED EN378 LIMITS AND STATE QUANTITIES IN TECHNICAL SUBMITTAL RETURN.
5. INDOOR UNITS SHALL BE SUPPLIED COMPLETE WITH 22MM DIAMETER GRAVITY CONDENSATE DRAIN CONNECTION.
6. DIRECT EXPANSION SYSTEM TO BE SUPPLIED AS A COMPLETE CONTROLS PACKAGE WITH ALL COMPONENTS NECESSARY TO ENSURE THE CORRECT OPERATION OF THE UNITS.
7. DRIP TRAYS AND LEAK DETECTION SYSTEMS SHALL BE INSTALLED FOR THE CRITICAL INDOOR UNITS IN THE SERVER ROOM, WITH ALARMS INTEGRATED INTO THE BMS SYSTEM.

NOTE:

1. IL SISTEMA AD ESPANSIONE DIRETTA (DX) DEVE ESSERE CARICATO CON REFRIGERANTE CON UN POTENZIALE DI RISCALDAMENTO GLOBALE INFERIORE A 675.
2. LE UNITà DX CRITICHE DEVONO ESSERE SELEZIONATE PER SODDISFARE IL CARICO DI RAFFREDDAMENTO SENSIBILE IN BASE A UNA CONDIZIONE INTERNA DI 25 °C AL 50% DI UMIDITà RELATIVA E UNA TEMPERATURA ESTERNA DI 40 °C.
3. LE UNITà DX CRITICHE N+1 DEVONO ESSERE CONFIGURATE PER L'ATTIVAZIONE AUTOMATICA AL RILEVAMENTO DI UN GUASTO IN QUALSIASI UNITà ATTIVA.
4. QUANTITà DI CARICA DI REFRIGERANTE IN BASE ALLE INFORMAZIONI DI PROGETTAZIONE. L'APPALTATORE DEVE GARANTIRE CHE LA CARICA DI REFRIGERANTE NON SUPERI I LIMITI EN378 E INDICARE LE QUANTITà NELLA DICHIARAZIONE DI PRESENTAZIONE TECNICA.
5. LE UNITà INTERNE DEVONO ESSERE FORNITE COMPLETE DI RACCORDO DI SCARICO CONDENSA A GRAVITà DI 22 MM DI DIAMETRO.
6. SISTEMA AD ESPANSIONE DIRETTA DA FORNIRE COME PACCHETTO COMPLETO DI CONTROLLI CON TUTTI I COMPONENTI NECESSARI PER GARANTIRE IL CORRETTO FUNZIONAMENTO DELLE UNITà.
7. LE VASCHETTE RACCOGLIGOCCE E I SISTEMI DI RILEVAMENTO DELLE PERDITE DEVONO ESSERE INSTALLATI PER LE UNITà INTERNE CRITICHE NELLA SALA SERVER, CON ALLARMI INTEGRATI NEL SISTEMA BMS.

Key Plan



Rev.	Data	Descrizione
P01	31/10/2025	Permesso di Costruire

Zibido San Giacomo

BRUNO MATTEO
ORDINE DEGLI INGEGNERI PROV. MILANO
N. A 23449
A.T.P. INGEGNERIA

Progettazione masterplan, Progettazione architettonica, Progettazione ingegneristica

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Committente
Amazon Data Services Italy S.r.l.

Progetto
PERMESSO DI COSTRUIRE
art. 10(L), D.P.R. 6 Giugno 2001, n° 380

Progetto di Data Center
in Via G. Verdi n° 9, Zibido San Giacomo,
Milano, Italia

Fase progettuale:
Permesso di Costruire

Titolo Elaborato
EDIFICIO A - SCHEDA ATTREZZATURA
MECCANICA TAVOLA 4

Scala

Disciplina	By / Chkd / Appd
Meccanico	CHI/VM/FP
Arup Job No	Rev
306134-00	P01

Tav. No
Z-M-PDC-SC-XX-12

Do not scale
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